SIEMENS

Data sheet 3RT2015-2BB41



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, spring-loaded terminal, size: S00 $\,$

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	0.6 W
 at AC in hot operating state per pole 	0.2 W
 without load current share typical 	4 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
of main circuit rated value	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	30 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
of the contactor with added auxiliary switch block typical	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Weight	0.316 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

Environmental Product Declaration(CPCP) Signature State	Environmental footprint	
Section 1988		Yes
djobal varming potential (CO2 eq) during operation 192 kg djobal varming potential (CO2 eq) after end of life -0.305 kg		·
Committee of poles for main current circuit 3 3 3 3 3 3 3 3 3		į
Number of poles for main current circuit 3		J
number of poles for main current circuit 3 number of NO contacts for main contacts 3 soperating voltage 4 nt AC-3 rated value maximum 690 V ent AC-3 rated value maximum 690 V operational current 4 at AD V at ambient temperature 40 °C rated value ** at AC-1 4 at 400 V at ambient temperature 40 °C rated value ** at AC-1 4 at 400 V at ambient temperature 40 °C rated value ** at AC-3 ** at 400 V at ambient temperature 60 °C rated value ** at AC-3 ** at 400 V rated value ** at AC-3 ** at 400 V rated value ** at AC-3 ** at 400 V rated value ** at AC-3 ** at 400 V rated value ** at AC-3 ** at 400 V rated value ** at AC-3 ** at 400 V rated value ** at AC-3 ** at 400 V rated value ** at AC-3 ** at 400 V rated value ** at AC-3 ** at 400 V rated value ** at AC-3 ** at AC		oloco ng
Description of NO contacts for main contacts 3		3
operations of AC-3 rated value maximum	· · · · · · · · · · · · · · · · · · ·	
		. •
• et AC-3e rated value maximum operational current • at AC-1 4 400 V at ambient temperature 40 °C rated value - up to 690 V at ambient temperature 60 °C rated value - up to 690 V at ambient temperature 60 °C rated value • at AC-3 - at 400 V rated value • at AC-3 - at 400 V rated value • at AC-3 - at 400 V rated value • at AC-3 - at 400 V rated value • at AC-3 - at 400 V rated value - at 690 V rated value - at 600 V rated value - at AC-3 up to 690 V totad value - at AC-3 up to 690 V totad value - at AC-3 up to 690 V totad value - at AC-3 up to 590 V totad value - at AC-3 up to 590 V for current peak value n=20 rated value - up to 200 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - at 600 V rated valu		690 V
operational current		
at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value at AC-3 — at 400 V rated value — at 590 V rated value — at 690 V rated value — at AC-3a up to 690 V rated value — at AC-3a up to 690 V rated value — at AC-3b up to 400 V for current peak value n=20 rated value — up to 230 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 230 V for current peak value n=20 rated value — up to 230 V for current peak value n=30 rated value — up to 230 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — at 600 V rated value		
18 A	 at AC-1 at 400 V at ambient temperature 40 °C rated value 	18 A
	— up to 690 V at ambient temperature 40 °C rated	18 A
- at 400 V rated value	— up to 690 V at ambient temperature 60 °C rated	16 A
- at 500 V rated value - at 690 V rated value - 4,9 A • at AC-3e - at 400 V rated value	• at AC-3	
at AG-3e	— at 400 V rated value	7 A
at AG-3e — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value • at AC-4 at 400 V rated value • at AC-5 au pt 6 890 V rated value • at AC-5 bu pt 6 400 V rated value • at AC-5 bu pt 6 400 V rated value • at AC-5 au pt 6 800 V rated value — up to 230 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated value • at AC-6a — up to 230 V for current peak value n=30 rated value • at AC-6a — up to 230 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value — at 600	— at 500 V rated value	6 A
at 400 V rated value at 500 V rated value at 500 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at AC-5a up to 690 V rated value at AC-5a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value up to 690 V for current pe	— at 690 V rated value	4.9 A
at 500 V rated value at 690 V rated value at 690 V rated value at 690 V rated value at 14 AC-5 au pt 0 690 V rated value at 14 AC-5 up to 400 V rated value at 14 AC-5 up to 400 V rated value at 14 AC-8 au pt 0 230 V for current peak value n=20 rated value up to 230 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value	• at AC-3e	
at AC-4 at 400 V rated value at AC-5a up to 690 V rated value at AC-5a up to 690 V rated value at AC-5a up to 690 V rated value at AC-5a at AC-5a — up to 230 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — at 600 V rated value 3	— at 400 V rated value	
at AC-4 at 400 V rated value at AC-5a up to 690 V rated value at AC-5a up to 690 V rated value at AC-6a at AC-6a aup to 230 V for current peak value n=20 rated value aup to 500 V for current peak value n=20 rated value aup to 500 V for current peak value n=20 rated value aup to 500 V for current peak value n=20 rated value aup to 500 V for current peak value n=20 rated value aup to 500 V for current peak value n=20 rated value aup to 230 V for current peak value n=30 rated value aup to 500 V for current peak value n=30 rated value aup to 500 V for current peak value n=30 rated value aup to 500 V for current peak value n=30 rated value aup to 500 V for current peak value n=30 rated value aup to 500 V for current peak value n=30 rated value aup to 500 V for current peak value n=30 rated value aup to 500 V for current peak value n=30 rated value aup to 500 V for current peak value n=30 rated value aut 400 V rated value aut 20 V rated value aut 20 V rated value aut 20 V rated value aut 400 V rated	— at 500 V rated value	6 A
■ at AC-5a up to 690 V rated value ■ at AC-6b up to 400 V rated value ■ at AC-6a — up to 230 V for current peak value n=20 rated value — up to 400 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated value ■ up to 690 V for current peak value n=30 rated value ● at AC-6a — up to 230 V for current peak value n=30 rated value — up to 400 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — at 1400 V rated value ■ at 690 V rated value ■ at 690 V rated value ■ at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 220 V rated value — at 240 V r	— at 690 V rated value	
at AC-5b up to 400 V rated value at AC-6a — up to 230 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 690 V for current peak value n=30 rated value • at AC-6a — up to 230 V for current peak value n=30 rated value — up to 400 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 60 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 24 V rated value — at 20 V rated value — at		
at AC-6a — up to 230 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated value — up to 230 V for current peak value n=30 rated value • at AC-6a — up to 400 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 600 V rated value	•	
- up to 230 V for current peak value n=20 rated value - up to 400 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 690 V for current peak value n=20 rated value • at AC-6a - up to 230 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 1 current path at DC-1 - at 24 V rated value - at 60 V rated value - at 60 V rated value - at 600 V rated value - at 440 V rated value - at 600 V rated value - at 440 V rated value - at 24 V rated value - at 25 A - at 110 V rated value - at 20 V rated value - at 440 V rated value	•	5.8 A
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value value minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 400 V rated value at 24 V rated value at 24 V rated value at 400 V rated value at 600 V rated value at 24 V rated value at 200 V rated val		
up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value at 400 V rated value at 690 V rated value at 690 V rated value at 24 V rated value at 24 V rated value at 60 V rated value at 600 V rated value at 24 V rated value at 200 V rated value	·	
- up to 690 V for current peak value n=20 rated value • at AC-6a - up to 230 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value 2.5 A - up to 690 V for current peak value n=30 rated value 2.5 mm² winimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 1 current path at DC-1 - at 24 V rated value 15 A - at 10 V rated value 15 A - at 110 V rated value 1.5 A - at 440 V rated value 0.6 A - at 440 V rated value 0.42 A • with 2 current paths in series at DC-1 - at 24 V rated value 15 A - at 60 V rated value 15 A - at 100 V rated value 15 A - at 200 V rated value 15 A	·	
• at AC-6a — up to 230 V for current peak value n=30 rated value — up to 400 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value 15 A — at 10 V rated value 15 A — at 220 V rated value 0.6 A — at 440 V rated value 0.42 A • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value 15 A — at 100 V rated value 15 A — at 100 V rated value 9.42 A • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value 9.42 A • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value 9.42 A • with 2 current paths in series at DC-1 — at 220 V rated value — at 60 V rated value 9.42 A • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value 9.42 A • with 2 current paths in series at DC-1 — at 220 V rated value 9.44 A 9.44 A 9.44 A 9.45 A 9.46 A 9.47 A 9.48 A 9.49 A 9.40 A 9.40 V rated value 9.40 A 9.40 A 9.41 A 9.42 A 9.43 A 9.44 A 9.4		
up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value at 24 V rated value at 60 V rated value at 440 V rated value at 600 V rated value at 24 V rated value at 25 A 2.5 mm² 2.6 A 2.6 A 4.7 A 2.5 mm² 2.6 A 4.8 A 4.8 A 4.9 A 4.9 A 4.9 V rated value at 200 V rated value at 440 V rated value	·	3.0 A
up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value at 24 V rated value at 60 V rated value at 110 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 24 V rated value at 220 V rated value at 24 V rated value at 44 V rated value at 60 V rated value at	 up to 230 V for current peak value n=30 rated value 	2.7 A
	 up to 400 V for current peak value n=30 rated value 	2.7 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value	·	2.5 A
value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value 2.6 A • at 690 V rated value 1.8 A operational current • at 1 current path at DC-1		
AC-4 ● at 400 V rated value 2.6 A ● at 690 V rated value 1.8 A Operational current ● at 1 current path at DC-1 15 A — at 24 V rated value 15 A — at 60 V rated value 1.5 A — at 110 V rated value 0.6 A — at 440 V rated value 0.42 A — at 600 V rated value 0.42 A ● with 2 current paths in series at DC-1 15 A — at 24 V rated value 15 A — at 60 V rated value 15 A — at 110 V rated value 15 A — at 110 V rated value 8.4 A — at 220 V rated value 1.2 A — at 440 V rated value 0.6 A	value	2.5 mm ²
● at 690 V rated value operational current ● at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value 15 A — at 110 V rated value 1.5 A — at 220 V rated value 0.6 A — at 440 V rated value 0.42 A ● with 2 current paths in series at DC-1 — at 24 V rated value 15 A ■ at 20 V rated value 15 A ■ at 20 V rated value 15 A ■ at 24 V rated value 15 A — at 20 V rated value 15 A — at 20 V rated value 15 A — at 110 V rated value 15 A — at 110 V rated value 15 A — at 440 V rated value 0.6 A	AC-4	2.6.Δ
operational current • at 1 current path at DC-1		
 at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 600 V rated value with 2 current paths in series at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 220 V rated value at 24 V rated value at 24 V rated value at 440 V rated value 60 A 		
- at 24 V rated value 15 A - at 60 V rated value 1.5 A - at 110 V rated value 1.5 A - at 220 V rated value 0.6 A - at 440 V rated value 0.42 A • with 2 current paths in series at DC-1 - at 24 V rated value 15 A - at 60 V rated value 15 A - at 60 V rated value 15 A - at 110 V rated value 15 A - at 120 V rated value 15 A - at 120 V rated value 1.2 A - at 440 V rated value 1.2 A - at 440 V rated value 0.6 A	•	
- at 60 V rated value 15 A - at 110 V rated value 1.5 A - at 220 V rated value 0.6 A - at 440 V rated value 0.42 A - at 600 V rated value 0.42 A • with 2 current paths in series at DC-1 - at 24 V rated value 15 A - at 60 V rated value 15 A - at 110 V rated value 8.4 A - at 220 V rated value 1.2 A - at 440 V rated value 0.6 A		15 A
- at 110 V rated value 1.5 A - at 220 V rated value 0.6 A - at 440 V rated value 0.42 A - at 600 V rated value 0.42 A • with 2 current paths in series at DC-1 - at 24 V rated value 15 A - at 60 V rated value 15 A - at 110 V rated value 8.4 A - at 220 V rated value 1.2 A - at 440 V rated value 0.6 A		
 — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value 		
 — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value 		
 — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value 		
— at 24 V rated value 15 A — at 60 V rated value 15 A — at 110 V rated value 8.4 A — at 220 V rated value 1.2 A — at 440 V rated value 0.6 A	— at 600 V rated value	0.42 A
— at 24 V rated value 15 A — at 60 V rated value 15 A — at 110 V rated value 8.4 A — at 220 V rated value 1.2 A — at 440 V rated value 0.6 A	• with 2 current paths in series at DC-1	
 at 110 V rated value at 220 V rated value at 440 V rated value 0.6 A 	-	15 A
 at 220 V rated value at 440 V rated value 0.6 A 	— at 60 V rated value	15 A
— at 440 V rated value 0.6 A	— at 110 V rated value	8.4 A
	— at 220 V rated value	1.2 A
— at 600 V rated value 0.5 A	— at 440 V rated value	0.6 A
	— at 600 V rated value	0.5 A

with 2 aument notice in contract PO 4	
with 3 current paths in series at DC-1 at 24 V roted value.	15 A
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	15 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.7 A
at 1 current path at DC-3 at DC-5	,
— at 24 V rated value	15 A
— at 60 V rated value	0.35 A
with 2 current paths in series at DC-3 at DC-5	45.4
— at 24 V rated value	15 A
— at 60 V rated value	3.5 A
— at 110 V rated value	0.25 A
with 3 current paths in series at DC-3 at DC-5	45.4
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.14 A
— at 600 V rated value	0.14 A
operating power	
• at AC-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
operating power for approx. 200000 operating cycles at AC-	
at 400 V rated value	1.15 kW
at 690 V rated value	1.15 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	1.5 kVA
up to 400 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value	2.7 kVA
up to 500 V for current peak value n=20 rated value	3.3 kVA
up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value	4.3 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	1 kVA
up to 400 V for current peak value n=30 rated value	1.8 kVA
up to 500 V for current peak value n=30 rated value	2.2 kVA
up to 690 V for current peak value n=30 rated value	2.9 kVA
short-time withstand current in cold operating state up to	
40 °C	
 limited to 1 s switching at zero current maximum 	120 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	67 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	52 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	40.4.11
	43 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	43 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency • at DC	43 A; Use minimum cross-section acc. to AC-1 rated value 10 000 1/h
* * *	
• at DC	
at DC operating frequency	10 000 1/h
at DC operating frequency at AC-1 maximum	10 000 1/h 1 000 1/h
at DC operating frequency at AC-1 maximum at AC-2 maximum	10 000 1/h 1 000 1/h 750 1/h

Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	24 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.8
full-scale value	1.1
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	
• at DC	30 100 ms
opening delay	
• at DC	7 13 ms
arcing time	10 15 ms
control version of the switch operating mechanism Auxiliary circuit	Standard A1 - A2
	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	40.4
at 230 V rated value at 400 V rated value	10 A 3 A
 at 400 V rated value at 500 V rated value 	3 A 2 A
at 500 V rated value at 690 V rated value	1A
operational current at DC-12	
at 24 V rated value	10 A
at 48 V rated value	6 A
• at 60 V rated value	6 A
at 110 V rated value	3 A
• at 125 V rated value	2 A
• at 220 V rated value	1 A
• at 600 V rated value	0.15 A
operational current at DC-13	
• at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	4.8 A
at 600 V rated value	6.1 A
yielded mechanical performance [hp]	
for single-phase AC motor— at 110/120 V rated value	0.25 hp
— at 110/120 V rated value — at 230 V rated value	0.25 hp 0.75 hp
for 3-phase AC motor	0.1 O TIP
— at 200/208 V rated value	1.5 hp
— at 220/230 V rated value	2 hp
— at 460/480 V rated value	3 hp
— at 575/600 V rated value	5 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA
design of the fuse link	
for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)

— with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
nstallation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method side-by-side mounting	Yes
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	70 mm
width	45 mm
depth	73 mm
required spacing	
 with side-by-side mounting 	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
onnections/ Terminals	0 111111
type of electrical connection	and a land of town in the
for main current circuit	spring-loaded terminals
for auxiliary and control circuit	spring-loaded terminals
at contactor for auxiliary contacts	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (0.5 4 mm²)
— solid or stranded	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
 for AWG cables for main contacts 	2x (20 12)
connectable conductor cross-section for main contacts	
• solid	0.5 4 mm²
• stranded	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
 finely stranded without core end processing 	0.5 2.5 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 4 mm²
• finely stranded with core end processing	0.5 2.5 mm²
finely stranded without core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0,5 4 mm²)
finely stranded with core end processing	2x (0.5 2.5 mm²)
finely stranded without core end processing	2x (0.5 2.5 mm²)
for AWG cables for auxiliary contacts	2x (20 12)
AWG number as coded connectable conductor cross	(··· ·-)
section	
• for main contacts	20 12
for auxiliary contacts	20 12
• for auxiliary contacts	
afety related data	
·	

No
Yes
Yes
20 a
Yes
40 %
73 %
1 000 000
100 FIT
3
Yes
Type A
IP20
finger-safe, for vertical contact from the front
• •









Confirmation



<u>KC</u>

General Product Approval

EMV

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report

Special Test Certificate

Miscellaneous



Marine / Shipping













other Railway

Dangerous goods

Environment

Miscellaneous

Confirmation

Special Test Certific-<u>ate</u>

Transport Information



Environmental Con-firmations

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2015-2BB41

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2015-2BB41}$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

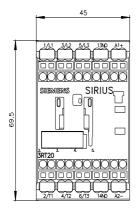
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2BB41

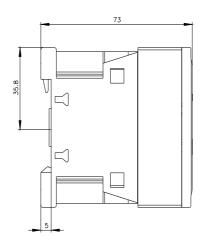
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

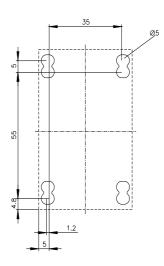
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-2BB41&lang=en

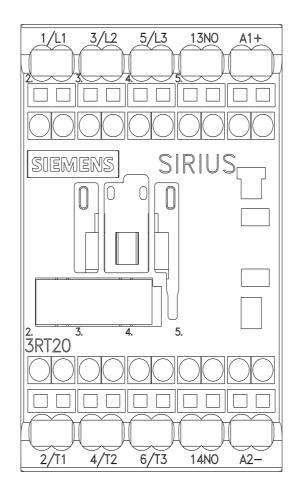
Characteristic: Tripping characteristics, I²t, Let-through current

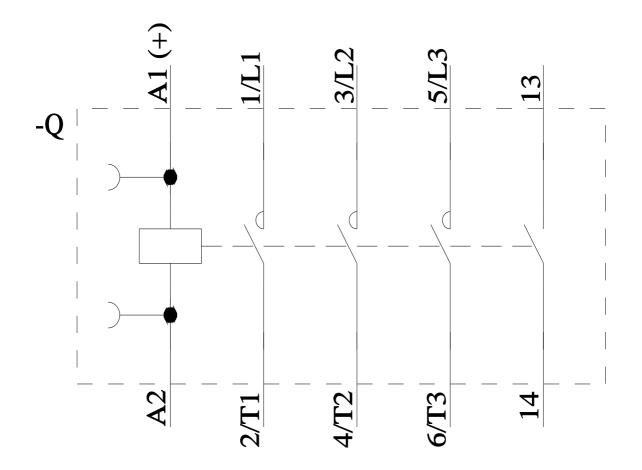
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2BB41/char











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